

WF-P1H

Multi-Band Wi-Fi 6 Antenna with 3M Adhesive Tape



Product Description

Santa Fe WF-P1H supports whole Wi-Fi bands, including the latest IEEE 802.11ax standard. The IEEE 802.11 defines the technical specifications of the wireless LAN standard. The IEEE 802.11ax standard for high efficiency (or HE) covers MAC and PHY layer operation in the 2.4 GHz, 5 GHz and 6 GHz bands.

The PCB antenna goes with coaxial cable terminated with iPEX or required connector and is easy to be placed inside the enclosure of the wireless devices.

Features:

- Supports whole bands, including the latest Wi-Fi frequencies, with high radiation efficiencies
- Matched to Radio Modules from: Sierra Wireless, Telit, Huawei, Gemalto, uBlox, ZTE
- Easy to install with adhesive tape

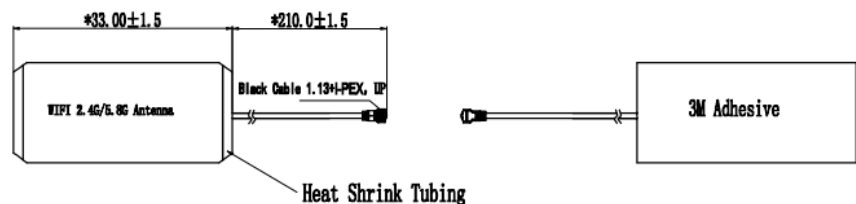
Electrical Specifications

Frequency	2400 ~ 2500MHz 5150 ~ 5850MHz 5925 ~ 7125MHz
Gain (Peak)	2.23 dBi @ 2400 ~ 2500MHz 4.61 dBi @ 5150 ~ 5850MHz 3.50 dBi @ 5925 ~ 7125MHz
Efficiency (Peak)	64.31% @ 2400 ~ 2500MHz 50.70% @ 5150 ~ 5850MHz 40.00% @ 5925 ~ 7125MHz
VSWR	<1.83 @ 2400 ~ 2500MHz <1.91 @ 5150 ~ 5850MHz <2.50 @ 5925 ~ 7125MHz
Polarization	Linear
Impedance	50Ω

Mechanical Specifications

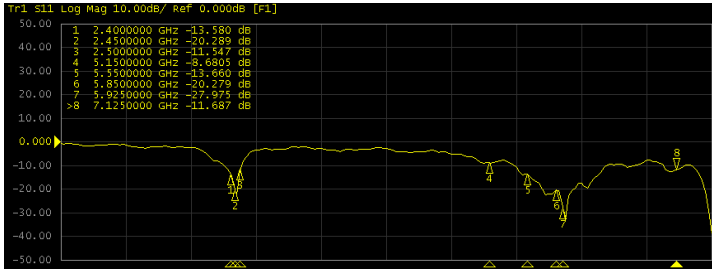
Dimension	31(L) x 15(W) x 0.4(T) mm
Connector	IPEX or Other RF Connectors
Cable	OD1.13 or other RF cable
Mounting	3M Double-side adhesive
Operation Temperature	-30° ~ +70°C
Storage Temperature	-30° ~ +75°C
RoHS	Compliant

Internal Antenna Drawing:

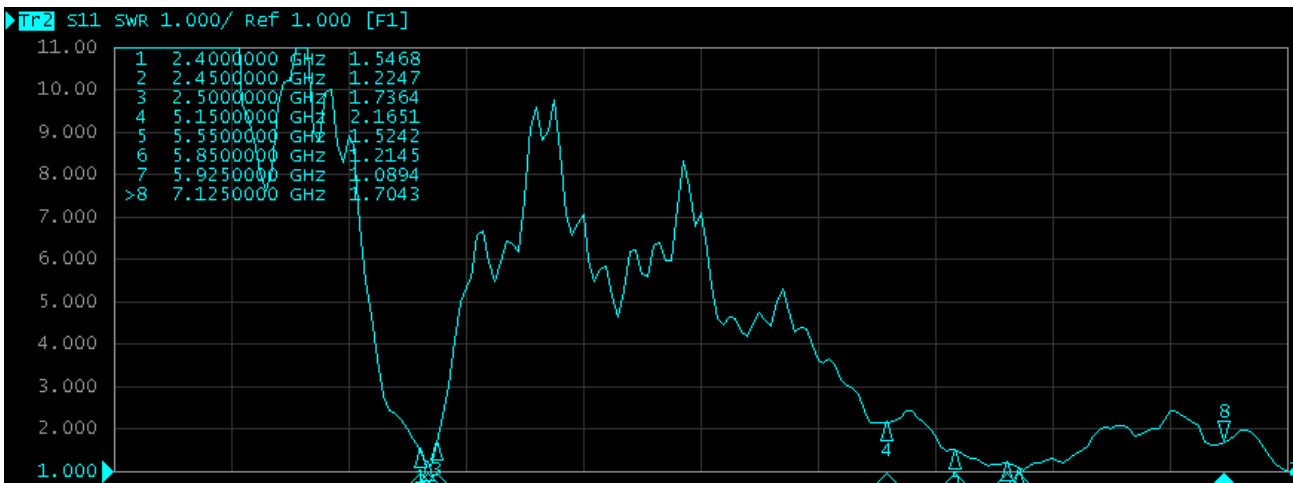


VSWR & Return Loss

Return Loss Curve



VSWR Curve



Antenna in Anechoic Chamber



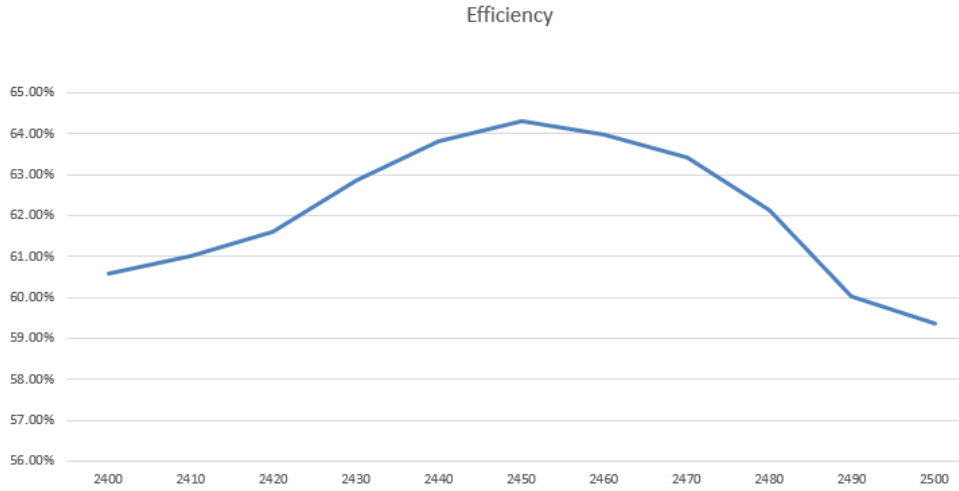
- Antenna Efficiency Chart

Frequency	Efficiency	Gain
2400	60.58%	2.23
2410	61.01%	2.19
2420	61.60%	2.15
2430	62.87%	2.19
2440	63.81%	2.23
2450	64.31%	2.21
2460	63.97%	2.14
2470	63.41%	2.03
2480	62.13%	1.87
2490	60.04%	1.67
2500	59.37%	1.37
2400	60.58%	2.23
2410	61.01%	2.19
2420	61.60%	2.15
2430	62.87%	2.19
2440	63.81%	2.23

Frequency	Efficiency	Gain	Frequency	Efficiency	Gain
5100	47.43%	3.52	5660	47.04%	4.50
5120	49.25%	3.67	5680	47.91%	4.29
5140	50.07%	3.70	5700	47.24%	4.35
5160	50.55%	3.86	5720	46.76%	4.24
5180	50.65%	3.85	5740	47.36%	4.19
5200	50.42%	3.82	5760	47.09%	4.01
5220	50.70%	3.88	5780	48.17%	4.15
5240	49.72%	3.75	5800	48.97%	4.42
5260	49.21%	3.67	5820	47.23%	4.09
5280	49.82%	3.63	5840	48.52%	3.87
5300	49.33%	3.53	5860	47.89%	3.76
5320	49.64%	3.61			
5340	49.71%	3.95			
5360	49.44%	4.01			
5380	49.88%	4.02			
5400	50.78%	4.15			
5420	49.73%	4.16			
5440	50.44%	4.24			
5460	49.45%	4.22			
5480	47.98%	4.39			
5500	49.19%	4.39			
5520	48.23%	4.34			
5540	48.51%	4.51			
5560	49.15%	4.55			
5580	48.91%	4.61			
5600	48.28%	4.59			
5620	48.03%	4.41			
5640	47.18%	4.57			

Antenna Efficiency Curve

- 2400 ~ 2500MHz



- 5150 ~ 5850MHz

